

PROJECTION WELD-BONDING SYSTEM AND METHOD

ABSTRACT

[0027] A method of welding includes: providing a first workpiece that is made of a material that conducts electricity; providing a second workpiece that is made of a material that conducts electricity and has a plurality of projections formed therein; applying a material between each projection of the plurality of projections, the material having an electrical conductivity that is lower than the conductivity of the second workpiece; disposing an area of the first workpiece at the plurality of projections of the second workpiece; and conducting electricity through the first workpiece and through at least one of the plurality of projections of the second workpiece. A projection weld bond system includes: a first workpiece that is made of a material that conducts electricity; a second workpiece that is made of a material that conducts electricity and has a plurality of projections formed therein; an area of the first workpiece is disposed at the plurality of projections; a material that has an electrical conductivity lower than the conductivity of the second workpiece and is disposed between each of the plurality of projections; and means for conducting electricity through the first workpiece and through at least one of the plurality of projections of the second workpiece.